neptronic®

SK300-SKE Steam Humidifier

Initial verification

Project		**Humidifier Model**		**Serial number**	

A qualified technician should carry out the following Initial Verification & Start up procedure.

Clearance & Installation

1. Ensure that cabinet of the humidifier is installed in a location where the humidifier can be serviced correctly (refer to § 3 of the user manual). ☐

2. Verify that the humidifier is properly attached to the wall or on its stands. Humidifier must be level. ☐

Electrical

3. Check that the power supply (voltage) conforms to the appliance name plate on the humidifier side. Please indicate the information below. ☐

   Voltage [   ]   Phase [   ]   Power [   ]

4. Ensure that power supply is properly connected and that an external over current and disconnect circuit breaker is installed on the supply adjacent to the humidifier (refer to § 7 of the user manual). ☐

Water

5. Ensure that water is supplied to the humidifier. A shut-off valve should be outside the humidifier.
   Once the water shut-off valve is turned ON, ensure that there are no apparent leaks. ☐

6. Confirm that Drain piping is properly connected to open drain, that drain pipe is of sufficient dimension and with slope properly (traps are not required) (refer to § 6 of the user manual). ☐

Steam

7. Check that steam distributors are properly installed into the ventilation duct. *Non applicable in case of humidifier equipped with SDU.* ☐

8. Verify that the flexible steam hoses and rigid steam supply pipes are shorter in total length than 16 feet (5m) and properly sloped and have condensation P traps wherever required (refer to § 5 of the user manual). *Non applicable in case of SDU mounted on the humidifier.* ☐

Please contact your local Neptronic® representative if steam piping does not conform to the installation instructions recommendations.

Controls

9. Ensure that a High limit duct humidistat is installed, properly connected to the humidifier and set point properly adjusted. ☐

10. Verify that Room humidistat or returned air duct humidistat is installed, properly connected to the humidifier and set point properly adjusted ☐

11. Turn Power ON at the disconnect switch ☐

12. Confirm that 5Vdc is present between terminal 1&2 of Control terminals, located on the control terminal. ☐

13. Ensure that the type of signal (0-10Vdc, 2-10Vdc or 4-20mA) of the humidistat correspond to the type set on the Modulating Printed circuit board (PCB) located in the electrical compartment (refer to § 8 of the user manual). *Non applicable in case of ON/OFF humidifier.* ☐

14. If Volt free contact have been connected, please confirm that the contact are acting as per customer requirements. ☐

15. Confirm the control set-up of the humidifier. The humidifier is factory set with Outside set point. Please refer to § 9.2 of the user manual to access to programming menu of the humidifier. *Non applicable in case of ON/OFF humidifier.* ☐

	1. Proceed to the start-up of the Humidifier, as follow:	☐
	a) Push the TEST button located on the main pc board. This pc board is located in the electrical compartment (refer to § 10 of the user manual).	☐
	b) This will start up a pre-programmed start-up cycle. This start-up cycle will test functions of the humidifier and will flush out any dirt in the humidifier and supply lines	☐
Start-up	This cycle will last about 1 hour. *Note: a) the front panel rocker switch will not affect the performance of the start-up cycle. b) In the case of modulating humidifier, there must be a demand signal of at least 50% for the start-up cycle to operate correctly. c) To bypass at any time the start-up cycle and to proceed directly into normal operation, press the RESET button located on the main pc board.*	
	c) The front panel rocker switch may be left in the AUTO position during the start-up cycle. This will result in normal operation of the humidifier as soon as the start-up cycle is finished.	☐
	d) Observe for water and steam leaks.	☐
Safety test	2. Check the location of the air flow switch in the system and its operation by stopping the fan (if possible). With no air movement in the air duct, the humidifier should automatically stop steam production.	☐
	3. Turn the humidifier OFF, by putting the front panel rocker switch to OFF (0) position.	☐
Drain and Reset	4. Execute a manual drain, by putting the front panel rocker switch to DRAIN position 🔲 . Observe for water drain leaks.	☐
	5. Reset Air flow switch and humidistat(s) to the proper value, if needed.	☐
	6. Turn the humidifier to the desired operation mode: AUTO or OFF, by putting the front panel rocker switch to the appropriate position.	☐
End	7. Humidifier is ready for normal operation.	☐

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